

## What are some effects of plate tectonics?

### Lesson Review

**PART A** Answer the questions in complete sentences.

1. What is the place called where two plates meet? \_\_\_\_\_  
\_\_\_\_\_
2. What is a trench and how does it form? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What is a mid-ocean ridge? \_\_\_\_\_  
\_\_\_\_\_
4. Name three features on Earth's surface that can be formed by plate tectonics activity. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

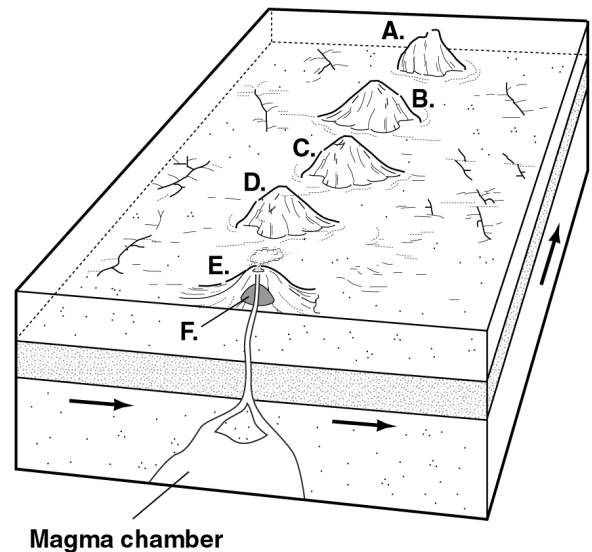
**PART B** Match the event or feature of Earth to what caused it.

- |  |                                     |
|--|-------------------------------------|
| _____ 1. two tectonic plates sliding past each other | a. eruption of Mount St. Helens     |
| _____ 2. two continental plates colliding            | b. San Francisco earthquake of 1906 |
| _____ 3. melting rock forming at a subduction zone   | c. the Hawaiian Islands             |
| _____ 4. hot spots forming under a tectonic plate    | d. the Himalayas                    |

### Skill Challenge

Study the diagram. Then, answer the questions that follow in complete sentences.

1. At what point is the hot spot located? \_\_\_\_\_  
\_\_\_\_\_
2. Which volcano is oldest—A, B, C, D, or E? \_\_\_\_\_  
\_\_\_\_\_
3. Which volcano is active? \_\_\_\_\_  
\_\_\_\_\_
4. Which volcano is youngest? \_\_\_\_\_  
\_\_\_\_\_
5. Which volcanoes are inactive? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# Why is the seafloor spreading?

## Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true.

- \_\_\_\_\_ 1. The two kinds of crust are oceanic crust and land.
- \_\_\_\_\_ 2. Series of underwater mountain chains are called mid-ocean ridges.
- \_\_\_\_\_ 3. Iceland is part of the Mid-Pacific Rise.
- \_\_\_\_\_ 4. Oceanic crust near a mid-ocean ridge is older than crust farther away.
- \_\_\_\_\_ 5. The deep crack running down the center of an ocean ridge is called a trench.
- \_\_\_\_\_ 6. New continental crust is formed at the mid-ocean ridges.
- \_\_\_\_\_ 7. Seafloor spreading is a process that forms new oceanic crust.

## Skill Challenge

Complete the following.

1. Label the lettered parts of Figure A. Use these labels: *oceanic crust*, *Iceland*, and *Mid-Atlantic Ridge*.

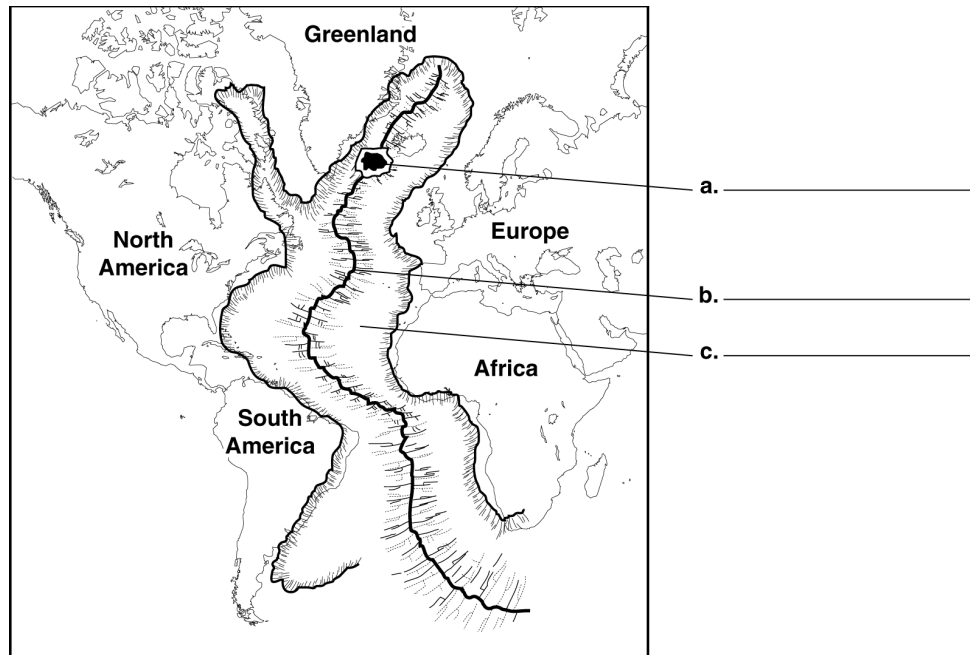


Figure A

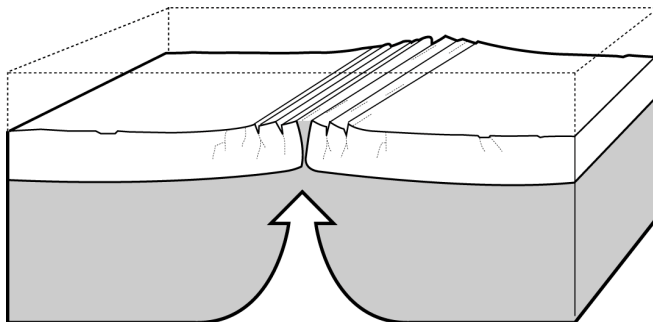


Figure B

2. Label Figure B. Use these terms: *rising magma*, *ocean crust*, *mid-ocean ridge*, and *rift valley*.
3. Draw arrows on Figure B to show seafloor spreading.